

RARA RAG

Rochester Amateur Radio Association
Founded in 1931
rochesterham.org



IT'S A NEW YEAR, SO LET'S GET STARTED

Gary Skuse, KA1NJL – RARA Vice President

JANUARY 2014
VOLUME 66, ISSUE 5

As we look forward to the new year it is time to think about helping new hams enjoy the hobby to the fullest and help more established hams do the things they have been meaning to do. The January RARA meeting, scheduled for Friday January 3rd at 7:00pm, will have something for everyone.

One of my favorite activities in this wonderful hobby is exchanging QSL cards with the hams I have worked across the country and around the world; while I thoroughly enjoy swapping paper cards with other hams, and browsing through my collection every once in a while to revisit past contacts, the world is certainly changing. At our January meeting Bill Kasperkoski, WB2SXY, will talk about the art of exchanging cards, both through the mail and electronically. Bill has personally witnessed the transformation of QSLing, starting with the exchange of messages scribed on rocks, to paper cards to the Logbook of the World with which contacts are acknowledged electronically. I love to exchange QSL cards and I expect to learn from Bill's talk and his inestimable experience.



Our second speaker, Jamie Oliver, KF2B, will talk to us about his experiences erecting an antenna tower (or in Perinton, an antenna support structure). A year ago, I did the same, and I wish I had the benefit of talking to someone who had already done it before I learned a lot of lessons the hard way. Jamie will describe his experiences going before the local zoning board, convincing his neighbors that towers are beautiful and should be appreciated, calculating wind loads, identifying a suitable location on his property, ordering and dealing with 6 tons of concrete, erecting the tower and mitigating lightning potential damage.

As if that isn't enough, we will also have a computer or two available to program your shiny new BaoFeng HT. Many new hams have purchased these reasonably priced radios upon earning their ticket so they can get on the air and start enjoying the hobby. However, programming them without a computer and the appropriate software sort of dulls the fun so we will help anyone who is interested at the January meeting. If you have a BaoFeng radio and would like help programming it please bring it to the meeting and we'll load it up with all of the local repeater frequencies for you. Wow, this meeting will be a busy but informative one!

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RARA MEETING

January 3rd, 7PM

Henrietta Fire Co. #1
3129 East Henrietta Rd.
(15A)

PREZ SEZ

Bill Marinucci, WB2GHC – RARA President

Happy New Year! My wish is that this year be one of health, happiness, and prosperity for each of you. A feeling of optimism accompanies the beginning of a new year, and our expectations are that 'things' will be better than the last. We make our resolutions, some realistic, while others are not as much, but it is worth the stretch in setting our goals. It's little wonder that the symbol for the new year is a newborn baby!

I have made some resolutions myself around my ham radio activities in the new year. My goals include getting on the air more frequently, and to spend some time on CW. I also want to put up a few new antennas when the weather is a little more favorable than it is right now. I haven't done much on 6 meters but this is the year to become active on that band. I also plan on volunteering for several public service events this year. I really enjoy working them and giving ham radio more public exposure. There is a satisfying feeling in volunteering and being of service.

This leads me into extending an invitation to members of our club for positions of service. All four of the club officer's terms are ending on September 30, 2014 as mandated by our bylaws. I want to plant a seed now to solicit volunteers to run for these Board positions. The future of RARA depends on having an active Board to maintain and grow our club going forward. Many of our current Board members have filled several positions over their tenure on the Board. Ham radio is changing, our demographics are changing, and RARA needs to embrace these changes to remain as one of the most outstanding amateur radio clubs around. Give it some thought, the time is right, and the time is now.

There are also many other activities that will need volunteer support throughout the year; events like our hamfest, our public service events, teaching a license class, being an 'elmer' (mentor) to new hams, doing a presentation at one of our RARA meetings, and the opportunities go on and on. Keep these in mind when you are making your resolutions, and make a commitment to get involved.

Don't forget that our Winterfest is on Saturday, February 1st. This event is getting bigger each year, and I encourage you to come and join us.... Get out of the house! I hope to see you there.

Best 73!

CALENDAR OF EVENTS

JANUARY 3RD - *RARA General Meeting*

7:00 PM at Henrietta Fire Co #1, 3129 East Henrietta Road

JANUARY 8TH - *RARA Board of Directors*

5:30 PM RIT Engineering Hall, Room 2110

JANUARY 18TH - *RARA VE Testing*

10:00 AM RIT Gleason Hall, Room 3139

JANUARY 25TH - *RARA Very Basic Electronics*

9:30 AM RIT Gleason Hall, Room 3139

FEBRUARY 1ST - *Winterfest*

Mendon Ponds Park, Stewart Lodge

RARA WINTERFEST 2014

Gary Skuse, KA1NJL – RARA Vice President

Time is passing and before we know it the holidays will be behind us and the RARA Winterfest will be here. Please plan to join us on Saturday February 1st 2014. Wow, writing that date really makes me feel old. This year the 'fest will be at the Stewart Lodge in Mendon Ponds Park, the same venue we used for the very successful RARA summer picnic. The lodge has heat, a fireplace, it is located near the bathrooms and there is plenty of parking. I can't think of a reason why everyone shouldn't join us for the festivities. But, there's more...



To make the 'fest even better we are going to have a chili cook-off this year. Bring out your favorite chili to share, or bring a dessert, impress your friends with your culinary capabilities and take your chances at winning a prize. There will be prizes for the top three chili recipes and for the top three desserts. Whether your chili is hot or not I anticipate that the competition will be sizzling. RARA membership points will be awarded for the best chili and the best desserts. Those points are redeemable toward your membership renewal, the annual banquet or some fashionable RARA apparel that is sure to evoke envy among your friends and coworkers.



For the past two years we also made the Winterfest feast an operating event. Several hams brought radios, erected antennas and had a blast enjoying our hobby together. A number of prospective hams came last year and saw how much fun we have with our radios, some went on to obtain their tickets, in part because of

their positive experience at the Winterfest. In fact, this aspect of the 'fest was so rewarding that we encourage you to invite any non-hams you know who may be interested in learning more about radio while enjoying the delightful edible treats that you and your fellow hams bring to the 'fest. If you would like to bring a radio, please do. If you need any help with antennas or any other aspect of your station please let me know and I'll do what I can to help you get on the air.

As always, there is a direct positive relationship between the fun we will have and the number of people who attend. Please join us, enjoy each other's company, share our hobby with would-be hams eat some great food.



UNDER NEW MANAGEMENT

Marisa Ashour, KC2VMM & Forest Shick, WA2MZG

In light of the recent changes in RARA Department Heads, Marisa Ashour, KC2VMM and Forest Shick, WA2MZG have taken on the responsibility of editing and publishing the RARA RAG. Marisa and Forest would like to give a short introduction to readers of the RARA RAG.

Hi, my name is Marisa Ashour, and I received my Technician license in the summer of 2009, shortly after I finished my sophomore year of high school; however, I began to operate much more frequently when I arrived at RIT in the fall of 2011. Shortly after starting my courses, I became actively involved with the RIT Amateur Radio Club, K2GXT. In the winter of last year, I decided that enough was enough, and that I wanted to be able to contest without a higher licensed club member allowing me to use my privileges, and finally upgraded to a General class license (And hopefully, Extra will follow shortly)! One of my favorite activities in amateur radio is contesting, and I'm hoping that with the new year, I will have the opportunity to do so more often.

I've had the pleasure of serving as Treasurer for the RIT ARC, and I am currently President of the club! As such, I am quite involved in the organization of many of the club's activities, such as exclusive field trips that many college students do not have the privilege of experiencing. I'm also currently a member of the RARA Board of Directors, and I knew that helping to publish the RAG would be an excellent way for me to contribute to RARA! Editing the RAG will definitely be a change in pace from my Electrical Engineering courses, and I'm hoping that even more readers consider contributing articles.

Hi I'm Forest Shick, WA2MZG. I few years ago I joined RARA after discovering my old grammar school classmate and friend Bill Marinucci was VP of the club. Since then I have renewed my license – it had lapsed - and now have an Extra class license. I am currently serving on our Board of Directors. I became a ham in college – peer pressure! My first job was at Motorola designing VHF & UHF FM mobile radios. A ham's dream come true.

My interests lie in designing and building "stuff". Getting on the air almost always takes the back seat to building. During my brief sabbatical from Ham radio, I gave almost everything away so I am currently trying to restock my shack / lab with test equipment, parts and gear. My close friend Jamie Oliver returned my 6M Squalo which he had kept safely in his garage for 30+ years. It still works! Rule of Thumb: NEVER give anything away.

One important acknowledgement – Marisa has redesigned the look of the RARA RAG. I hope you are as excited about the new look as I am!

As editors, we hope that we will be able to bring a plethora of exciting and interesting articles to the readers. One of our first requests is for more Do-It-Yourself articles, much like the article on creating a front panel in this issue. We're looking for short articles, no more than a page or two about any sort of project that you may have done recently that you think other operators may be interested in, including electrical and mechanical projects.

VERY BASIC ELECTRONICS

Forest Shick, WA2MZG

It looks as if we will have very well attended sessions for our Very Basic Electronics classes. At the time of this writing we have 10 people that have expressed interest.

The classes are scheduled for 8 consecutive Saturday mornings starting January 25, 2014 thru March 15, 2014. The sessions will be in room 9-3139 (Gleason Hall room 3139) from 9:30AM to 11:30AM.

The proposed sessions are:

1. Power Sources, Digital Voltmeters, Resistors
2. Oscilloscopes, Signal Sources, Capacitors
3. RF Signal Sources, Frequency Counters, Numbers, Inductors, Transformers
4. Active Components
5. Receivers
6. Transmitters
7. Digital Logic

If you are interested please provide your name, call and email address to Pam Kasperkoski – pamelakasperi@frontiernet.net. Pam is the RARA education coordinator.

If you have questions about the sessions you may contact Forest Shick, WA2MZG at the RARA meeting or by email – fshick@atriatechnologies.com.

VE TEAM INPUT

Ken Hall, W2KRH

At the November testing session we had 17 successful candidates including one who successfully passed all three exams:

Robert McCoy AC2MD

During my term as Team Leader, Robert is only the second person who has obtained his Extra license in one sitting. Congratulations Robert.

Congratulations to all of the new and upgraded hams.

The January testing will be on Saturday January 18th at 10AM in our usual RIT location: Gleason Hall room 9-3139.

Jacob	KD2FCS	T	James	KC3BQL	G
Steve	KD2FDA	T	Mark	N2XDO	G
Jacquelyn	KD2FCT	T	William	KD2DYR	G
Robert	KD2FCU	T	Natalie	KD2DYV	G
Timothy	KD2FCV	T	Michael	KD2DYT	G
Mary	KD2FCW	T	Robert	AC2MD	E
JoAnne	KD2FCX	T	William	KD2BME	E
Steven	KD2FCY	T	David	KC2SIO	E
Wayne	KD2FCZ	T			

THE UNDISCOVERED COUNTRY

Len Crellin, KC2PCD – RARA Secretary

If you are a Star Trek fan, you will certainly know my title “The Undiscovered Country” as the name of the sixth Star Trek movie. In the movie it is used by the Klingons to mean “the Future”. While we cannot always predict the future, we can certainly try to be prepared for the changes that are sure to happen.

The future of RARA will indeed have some changes we can be sure of in September 2014. Did you know that all of the current officers will end their terms of office at that time? Following the by-laws voted on by you the members, there are term limits to all officer positions. Directors can choose to continue on indefinitely as long as membership votes to keep them in office each year they wish to run.



The Star Trek reference also brings to mind the great ship Enterprise. If sci-fi is not your thing then let's use a sailing ship as a simile for our great club. The President is much like the captain, and his role is to steer the ship and keep it out of harm's way. They must avoid rocky waters and go around stormy weather. Being sure that all the passengers aboard (that would be the members) are safe and looked after and reach a new destination each month (we call them meetings).

The Vice President is like the Chief Engineer. Their role is to keep the engine running and they do this by stoking it with a new meeting topic each month. They also help organize things like picnics and Winterfest when the ship is in port. The VP is a real people person and detective, always looking for something new and exciting to entertain the passengers.

The Secretary is primarily the keeper of the maps. Without them, it would be easy to become disoriented and lost as memories become foggy. Of course the maps are the records kept at every meeting the Captain, or President, holds each month with his crew or Board of Directors. It is at these meetings that the entire crew looks for ways to make the journey more enjoyable for the passengers of the SS RARA.

The Treasurer is like the Purser, as they are in charge of all purchases of cargo needed on the ship and also the money received from the passengers for buying a ticket to get on board. As they are entrusted with all the bounty the RARA carries, they must be of the highest character and enjoy working with profits, losses and balancing it all out in the end.



There are also many other jobs on the RARA, we call most of them coordinators. A very important one is the Membership Secretary. Currently, Lisa Schramm, K2BGR is ours. She has decided to move on and thus the position must be filled before April 2014. Keeping track of over 700 members can be a daunting job, but Lisa has organized it so it all can be done from a single laptop. This is an extremely important position and our ship needs you or you and your spouse to become an active contributor to the club and become our new Membership Secretary.

While I have taken some liberties with my sailing stories, there is no doubt that NOW MORE THAN EVER, RARA needs you. The officer positions must be filled. Leadership will be changing. Please consider the consequences to your club if no one steps forward! There are indeed over 7 months before you will formally need to announce your interest in any officer position, but start now to consider which one appeals to you best. Come to a Board of Directors meeting (which are always open to all members) and see what the job entails, ask questions and begin your journey into being part of...the Undiscovered Country.

OH NO! MORE “HINTS AND KINKS”

Bill Hopkins, AA2YV

Yep, the mind never stops inventing thing-a-ma-jigs or retro-using a not-for-hamming item to great advantage. If we're over 55, these ideas usually come to us 15 minutes before we really wake up. If under 55, then it's in the shower.

Here are two more. I had a problem a few years ago with exposed coax feed line in the back yard. I thought, if I string it on 1ft. stakes across the yard, then it will be free of squirrels, who walk below it. (Don't they climb, Bill?) Well, when spring came and the snow melted, I noticed little nasty teeth and gnaw marks along most of the length, exposing the shielding. Good-bye coax. The next time I simply buried it, but when I wanted to alter the antenna configuration, I had to dig up the grass again! Well, the weather got ahead of me this fall, and 50ft. of coax lay on the grass, out to the tree where it went skyward. What to do? At Grainger I think I found just the thing – let's hope. I shielded the RG8/U with a ½ inch diameter plastic split tubing found in automotive uses. At just over \$16 for 25 feet, it will help protect the coax while it remains on top of the ground. It is called “corrugated loom tubing (part # 16Y252) and the coax can be shielded where it lies. No need to feed it through the tubing. Maybe my squirrel will munch lightly and go away, leaving the coax intact.



Years ago I fashioned small diameter PVC pipe stand-offs to route coax or twin-lead antenna feed line. They turned out elegantly, but at the cost of my time. I found a quick replacement that can be configured a number of ways. It is rancher's insulator extender to attach to fence posts and keep 'em on the farm. My product is from Dare Products, Battle Creek MI: Woodex Wood Post Insulator Extender (Woodex 5WP, bar code 3892301915-1). You get 10 per bag. The yellow polyethylene has a UV inhibitor, and it can be configured for “snap-on” to a feed line or feed line spacer (vertical or horizontal). Maybe it could also be used to make a folded dipole. Its length is 5in.

I NEED A FRONT PANEL, QUICK!

Forest Shick, WA2MZG

You've purchased a simple kit such as the Ten-Tec 1056 direct conversion receiver, and while it comes with all of the necessary components and the circuit board, there's no enclosure or front panel! After building the kit, you tuned it up and found that it works – but now what?

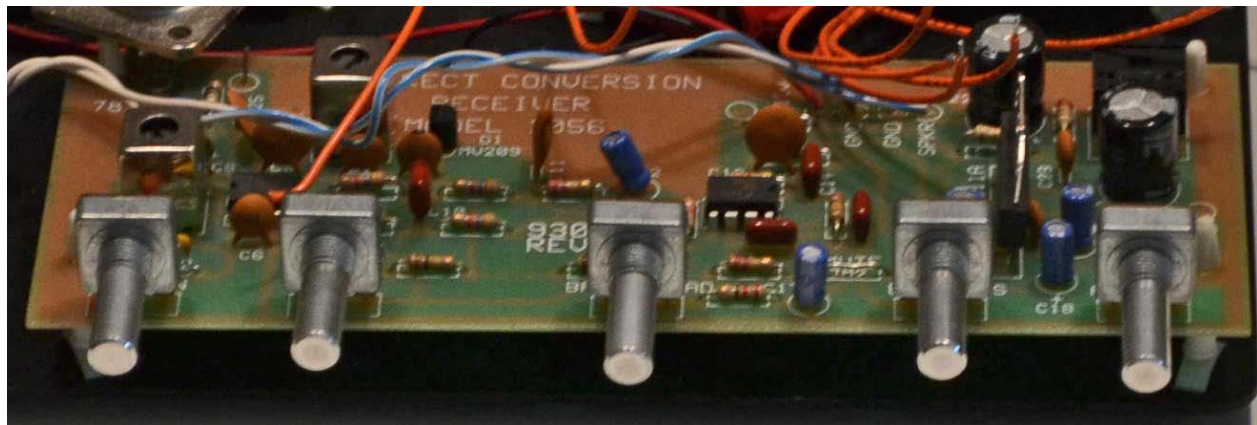
The circuit board is labeled with the function of the controls; however since the labels are hidden behind the controls, once you place the receiver somewhere slightly out of reach, you cannot see the control labels. The solution to this problem is simple – You need a front panel!

Many different techniques have been used over the years, such as:

- Rub on lettering
- Dymo labels
- Hand painted labels
- Hand engraving
- And more

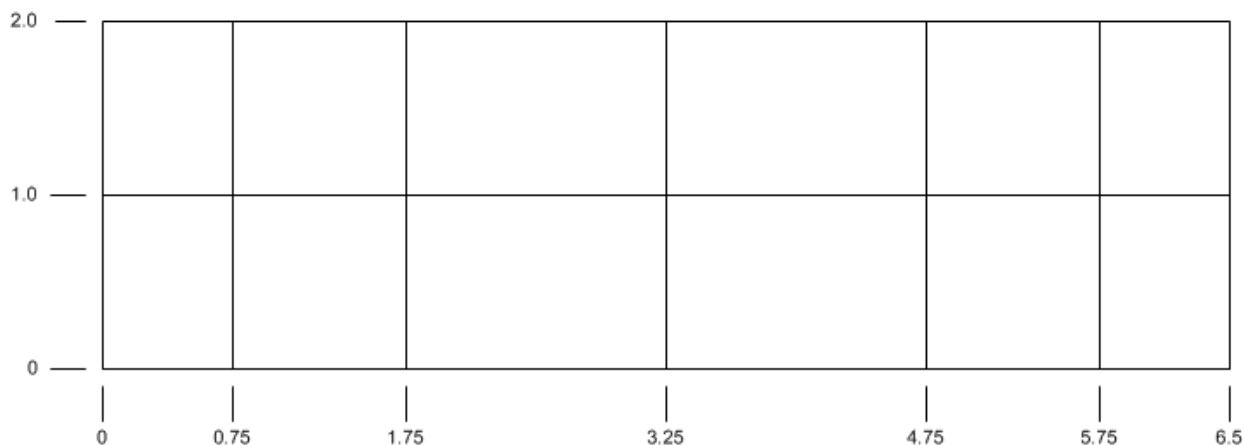
My preferred method requires the use of a computer; all you need is a simple graphics program, a printer, and photo paper.

A few years ago I purchased a Ten-Tec 1056 Direct Conversion Receiver, which as mentioned earlier came with the components and the circuit board, but no enclosure. It has five controls on the front, and if I used it often enough I would learn their function. To improve the usability of this simple receiver, I created a front panel label.



Ten-Tec 1056 Direct Conversion Receiver

I started by creating a drawing with the outside dimension of the receiver and the location of all the holes. While there are countless programs that can do this, I used Microsoft Visio because I am familiar with it. Although the circuit board is only 6" long, I made my label slightly larger (6.5") in case I decided to add an enclosure in the future, or if I wanted to add a brass or aluminum panel behind the label.

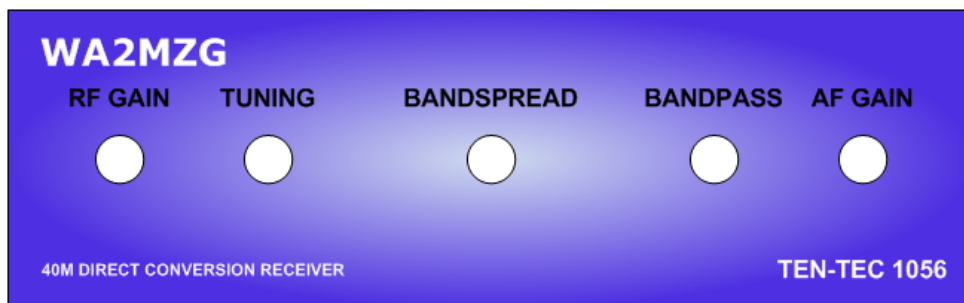


Dimensioned drawing of the front panel label

After creating the scaled drawing, I printed it out to verify that the holes were correctly located (on the cross sections at 1"

height). Today's software and printers scale drawings accurately, so if you have drawn your draft correctly, everything will line up. If you want to make a metal panel to go behind your label, this drawing can be used as your drill template.

Once I was sure that everything was in the correct location, I began to add my graphics and text. This was the most colorful part of the creation of this label, as I experimented with both colors and font sizes.



Colorized front panel label

I created multiple versions before I got the look I desired. After deciding on a final design, I printed my label on regular printer paper, and cut it out. Testing it on the device, I checked to see that everything fit, and that I was still satisfied with its appearance. Once I was happy with my results, I printed my finished label on photo paper, of which you have the choice of either glossy or matte paper. Of course, my label was limited in size to the available photo paper, but an 8½" x 11" label is almost big enough for a kilowatt amp!

The last step was to cut out the finished label and all the necessary holes. To accomplish this with accuracy, I used a paper cutter, a sharp knife, and a hole punch. For round holes, sharpened brass tubes of the correct diameter make great hole punches.



Ten-Tec 1056 Direct Conversion Receiver with finalized front panel label

The only items missing are the knobs. I hope your junk box is better than mine!

NOTE: The kit now comes with a front panel and knobs.

CALL FOR ARTICLES

Have you ever submitted an article to QST, CQ or any other magazine? Are you immediately frustrated by the time between your submission and subsequent publishing? After spending many hours preparing your article, you are told it may take up to 18 months before it appears in the publication.

We would like to add a recurring feature to the RAG – a DIY article similar to the articles on front panels and hints and kinks in this issue.

Possible topics include, but are not limited to:

- Metal working – making a chassis – not buying a chassis
- Home brew antennas
- QRP gear
- Station accessories

If you've built something recently that you think may be helpful or of interest to other hams, it would also be the perfect subject for a short article!

Submit your articles to editor@rochesterham.org, and see your ideas in print!

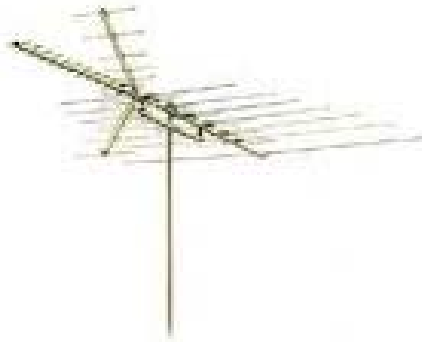
ITEMS FOR SALE

Gerry Oliver, N2LQN

As Is – All Sales Final – Cash Only

1. Cushcraft D4 rotatable dipole antenna. Still in the original container. Never removed or assembled. \$225 OBO
<http://www.cushcraftamateur.com/Product.php?productid=D-4>
2. Philips Magnavox MANT 902 VHF, FM, UHF, 32 element antenna. Digital and satellite compatible. Still in the original container. Never removed or assembled. \$30 OBO
3. Radio Shack 4.5 foot, tripod for roof-mount antenna mast. Cat#15-517A. Still in original container. Never removed or assembled. \$20 OBO

Contact Gerry Oliver staveisland@gmail.com



RARA RAGS OF THE PAST

Ed Gable, K2MP – RARA Club Historian

20 YEARS AGO, JANUARY, 1994

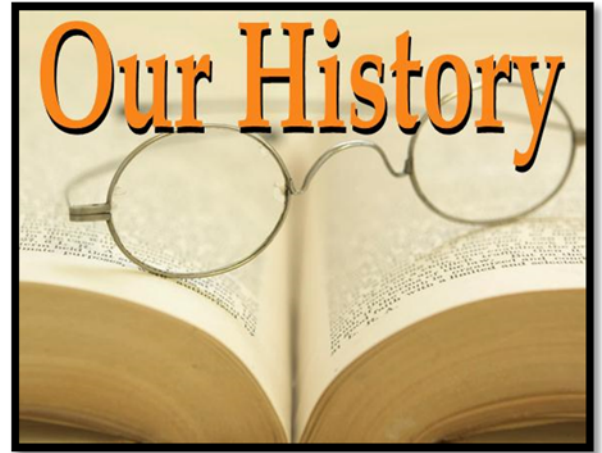
In the January 1994 issue of the Rag, RARA listed the January meeting as a presentation busting the myth that amateur radio is too difficult of a hobby to pursue without background knowledge. Gary Diana, N2JGU and Brad Mitchell, WB8YGG were listed as the presenters for the meeting, demonstrating simple operating techniques and hardware. At this time, advances in electronics were making commercial gear more efficient; however amateurs were slow to adapt such technologies, namely the printed circuit board, in their homebrewing activities.

The Spring RARA Licensing Classes were announced with a February starting date, and Joe Hood, K2YA inquired as to whether there was enough interest to also hold an Advanced License Class. Vice President and Program Chairman Roger Harnaart, WB2BWQ) wrote a blurb thanking the new Kodak Elmgrove ARC for their hosting RARA for the first time at the annual joint meeting of the two groups.

Fred Gern, KB2SE wrote on behalf of the RDXA and announced that the program for their next meeting would be a video entitled "Winning on the Hill". A documentary about the effort needed to win the ARRL June VHF contest, this video showcased the local Gannet Hill Gang.

Straying from usual editorials, Board of Directors member Alex Piccirilli, NV2Y wrote a two page article about Marguerite Soel, NU2U. A blind YL whom also lost both of her kidneys, Marguerite learned about amateur radio from her husband, Doug (NR2M), and was active on all bands, from 1.8 through 1296 MHz.

The issue closed with the regrettable announcement of the passing of Robert J. Agostinelli, WB2ERC, a member of the well-known Agostinelli family of amateurs. In the Want Ads, a MFJ-989-C antenna tuner could be purchased from Ron Zimmerman, W2MPI for \$150.00, and Sherwood Snyder, W2KFU Attorney at Law remained a commercial advertiser.



40 YEARS AGO, JANUARY, 1974

In the opening issue of the RARA Rags of 1974, RARA President Bob Lauzon, WB2NSD wished all members a happy and healthy holiday season, and Program Chairman, Joe Hood, K2YA detailed the upcoming general RARA meeting which introduced the use of integrated circuits in amateur radio. Almost as if following a recipe, Joe and Bob Reifsteck, K2LZG also explained some of the most prevalent uses for integrated circuit in amateur radio applications.

The date and location of the popular RARA Dinner-Dance were also announced in this issue; tickets were made available for \$7.50 from Helen Smith, WA2YRH. Held on February 9th of that same year, the dance took place at the Hilton Inn on the RIT Campus, and the Master of Ceremonies was none other than WHAM personality Eddie Dunn, W2ECH.

Club historian Bruce Kelley (W2ICE) wrote of the passing of an outstanding amateur radio community member, as well as RARA member, Robert Haner, W2BA. Active in the formation of RARA, Robert consistently operated during Field Day, and often scored high in VHF and DX contests.

The January 1974 issue concluded with the addition of a new advertising partner, as the RF Communications Division of Harris Inter-type Corporation was seeking to hire more engineers and technicians.

NEWS FROM OTHER AREA CLUBS

MONROE COUNTY ARES / RACES NEWS

NOTE: We do not meet in the month of December.

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend. The next ARES Meeting will be held on: **Thursday, January 23, 2014, at 7:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 9:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountymcomm.org

NBEMS: Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through 2013.



EDITORS' NOTE

Free press is available for your club! We welcome brief updates and meeting notices from all area ham clubs. Just send your input to editor@rochesterham.org. When preparing your article, please remember to keep it short, and assume that readers know nothing about your club. The article should be focused toward non-members, and not your own current members... that's what your newsletter is for! We hope all area clubs will take advantage of this opportunity to interest new members in joining their ranks.

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

VISIT THE RARA WEBSITE!

Did you know that your club's website (www.rochesterham.org) offers these features and more?

- Photos of meetings & events (you might be in there!)
- Info on upcoming meetings/programs
- Rochester Hamfest information!
- Online membership & renewal
- Track and redeem your Reward Points
- Public service info & sign-up
- VE testing info
- Back issues of the *Rag* in PDF
- Officer contact
- List of past presidents
- Online membership directory
- Order RARA logo products
- Useful Internet links
- Ham Radio 101 – tons of tutorial info, plus net & repeater listings



RARA MARKETPLACE

Your commercial ad could be here! The RARA Rag can help spread the word on your business at very reasonable rates. Contact us for details at editor@rochesterham.org.



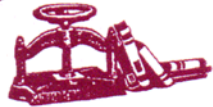
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FEBRUARY RAG DEADLINE

JANUARY 15, 2014

For the next edition of the RARA Rag, we're looking for articles about projects related to amateur Radio activities, such as antenna builds!



**RARA meets at 7PM on
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THE RARA RAG

Published by

Rochester Amateur Radio Association, Inc.

P.O. Box 93333, Rochester, NY, 14692-8333

Hotline – (585) 210- 8910

Website – <http://www.rochesterham.org>